

What is claimed is:

1. A data communication adapter, comprising:
 - a first interface to connect with a scan tool;
 - a second interface to connect with a third interface that is on a vehicle;
 - at least one data line that relays data transmitted in a communication protocol between the first and second interfaces;
 - a chipset in communication with the at least one data line, the chipset can convert a first communication protocol to a second communication protocol and vice versa; and
 - a transceiver in communication with the chipset and the at least one data line, the transceiver receives and transmits data to and from the chipset.
2. The adapter of claim 1, further comprising:
 - a switch that is provided on the at least one data line to direct the data within the adapter, the switch being controlled by the chipset to open or close; and
 - a regulator to change from a first voltage of a battery to a second voltage.
3. The adapter of claim 1, wherein the first communication protocol is J1850 and the second communication protocol is CAN.
4. The adapter of claim 1, wherein the chipset comprises:
 - a J1850 communication controller;
 - a CAN controller; and
 - a microprocessor, wherein the communication controller, the CAN controller and the microprocessor are in communication with each other.

5. The adapter of claim 4, wherein the microprocessor includes a memory device selected from a group consisting of an EEPROM, a flash memory, a RAM, other memory devices and a combination thereof.
6. The adapter of claim 2, wherein other communication protocols can be communicated directly between scan tool and the third interface on the vehicle without interference from the chipset.
7. The adapter of claim 2, wherein the chipset monitors the at least one data to determine whether J1850 or CAN communication is requested by the scan tool and directs the data to the appropriate portion of the adapter by opening or closing the switch.
8. The adapter of claim 1, wherein the communication protocol is selected from a group consisting of J1850, ISO 9141, ISO 14230, CAN, ISO 11898, ISO 15765, other communication protocols and a combination thereof.
9. A method for data communication, comprising the step of:
 - providing a communication adapter that interfaces with a scan tool and an interface on a vehicle;
 - monitoring at least one communication line for a communication protocol that contains data;
 - directing where the communication protocol will go in the adapter by a chipset that controls a switch located on the at least one communication line; and
 - converting a first communication protocol to a second communication protocol and vice versa with the chipset.

10. The method of claim 9, wherein the communication adapter is a CAN adapter.

11. The method of claim 9, wherein the communication protocol is selected from a group consisting of J1850, ISO 9141, ISO 14230, CAN, ISO 11898, ISO 15765, other communication protocols and a combination thereof.

12. The method of claim 9, wherein the chipset controls the switch to open or close depending on the communication protocol, wherein when the switch is closed, the communication protocol travels on the at least one data line between the scan tool and the interface on the vehicle, and when the switch is open the chipset converts the first communication protocol to the second communication protocol and vice versa.

13. A communication adapter system, comprising:
first means for interfacing with a scan tool;
second means for interfacing to connect with a third means for interfacing that is located on a vehicle;
means for relaying data by a communication protocol between the first and second means for interfacing;
means for controlling the communication of the data that is in communication with the means for relaying data, the means for controlling converts a first communication protocol to a second communication protocol and vice versa; and
means for transceiving that is in communication with the means for

controlling, and receives and transmits data to and from the means for controlling.

14. The adapter system of claim 13, further comprising:

means for switching to direct the direction of the communication that is controlled by the means for controlling; and

means to regulate a voltage from one voltage of a power source means to another voltage.

15. The adapter system of claim 13, wherein the means for relaying data allows data communication to occur between the first and the second means for interfacing.

16. The adapter system of claim 13, wherein the means for controlling is a chipset that comprises:

a communication controller;

a CAN controller; and

a microprocessor, wherein the communication controller, the CAN controller and the microprocessor are in communication with each other.

17. The adapter system of claim 16, wherein the microprocessor includes a memory device selected from a group consisting of an EEPROM, a flash memory, a RAM, other memory device and a combination thereof.

18. The adapter system of claim 14, wherein the means for controlling monitors controls the switch to open so that communication between the first and second means for interfacing is directed towards the means for controlling.

19. The adapter system of claim 14, wherein the means for controlling monitors controls the switch to close so that communication between the scan tool and third means for interfacing can occur without interference from the chipset.

20. The adapter system of claim 13, wherein the communication protocol is selected from a group consisting of J1850, ISO 9141, ISO 14230, CAN, ISO 11898, ISO 15765, other communication protocols and a combination thereof.

21. A data communication adapter, comprising:

- a first interface to connect with a scan tool;
- a second interface to connect with a third interface that is on a vehicle;
- at least one data line that relays data transmitted in a communication protocol between the first and second interfaces;
- a chipset in communication with the at least one data line, the chipset can convert a first communication protocol to a second communication protocol and vice versa;
- a transceiver in communication with the chipset and the at least one data line, the transceiver receives and transmits data to and from the chipset;
- a switch that is provided on the at least one data line to direct the data within the adapter, the switch being controlled by the chipset to open or close;
- and
- a regulator to change from a first voltage of a battery to a second voltage.